

Contents of Applied Physics A 47

This listing presents the papers in alphabetical order of the first author, subdivided according to the groupings "Solids and Materials" and "Surfaces, Interfaces, and Layer Structures". The author index that follows covers *Applied Physics A* and *B*, and is presented in tabular form. The names are listed in alphabetical order in the first column. The second column together with the third one contains the bibliographic data necessary to locate the paper. The issue is specified by the number separated from the volume number by a slash. The fourth column states the major PACS number so that the topic of the paper can be inferred by consulting the PACS listing on the left page.

Solids and Materials

- Chan Tung N., Caratini Y., D'Anterrosches C., Buevoz J.L.:
Characteristics of thin gate dielectric in a rapid thermal processing machine and temperature uniformity studies.
Appl. Phys. A 47/3, 237-247 (1988) PACS: 77.55F 77.50
- Danesh P., Kalitzowa M., Pantchev B., Simov S., De Blasi C., Vitali G., Rossi M.:
Dependence of glow discharge Si:H:Cl film morphology on diluent gas and SiCl₄ partial pressure.
Appl. Phys. A 47/3, 301-307 (1988) PACS: 61.16D 68.55 68.60
- Ferreira J.M., Maple M.B., Zhou H., Hake R.R., Lee B.W., Seaman C.L., Kuric M.V., Guertin R.P.:
Magnetic field alignment of high-T_c superconductors RBa₂Cu₃O_{7-δ} (R=rare earth).
Appl. Phys. A 47/1, 105-110 (1988) PACS: 74.70V 74.30 74.60
- Gonczarek R.:
Stoichiometric relations in high-temperature superconducting compounds.
Appl. Phys. A 47/2, 111-113 (1988) PACS: 74.70 74.30 74.90
- Hache F., Ricard D., Flytzanis C., Kreibitz U.:
The optical Kerr effect in small metal particles and metal colloids: The case of gold.
Appl. Phys. A 47/4, 347-357 (1988) PACS: 42.65 78.20 82.70
- Huber E., Marinero E.E.:
Magneto-optical activity of Ag at the plasma frequency.
Appl. Phys. A 47/2, 131-135 (1988) PACS: 78.20L
- Landi E., Armigliato A., Solmi S., Köglér R., Wieser E.:
Electrical activation of boron-implanted silicon during rapid thermal annealing.
Appl. Phys. A 47/4, 359-366 (1988) PACS: 61.70 61.70
- Li J.N., Kadowaki K., Menken M.J.V., Huang Y.K., Bakker K., Menovsky A.A., Franse J.J.M.:
Upper critical fields of single-crystalline and polycrystalline Ca-Sr-Bi-Cu-O Compounds.
Appl. Phys. A 47/2, 209-211 (1988) PACS: 74.70V 74.60
- Litsardakis G., Samaras D., Collomb A., Mignot J.P.:
Manganese location and magnetic structure determination of SrMn₂-W hexagonal ferrite by means of neutron diffraction.
Appl. Phys. A 47/4, 327-331 (1988) PACS: 75.30
- Lu Y.F., Takai M., Nagatomo S., Namba S.:
Wet-chemical etching of Mn-Zn ferrite by focused Ar⁺-laser irradiation in H₃PO₄.
Appl. Phys. A 47/4, 319-325 (1988) PACS: 81.40 82.65
- Maldonado C.D.:
An analytical technique for the calculation of distributed resistance in a rectangular domain.
Appl. Phys. A 47/4, 333-346 (1988) PACS: 85.40 41.00
- Mück M., Rogalla H., Heiden C.:
A frequency-modulated read-out system for dc SQUIDS.
Appl. Phys. A 47/3, 285-289 (1988) PACS: 74.50
- Nimtz G., Marquardt P.:
The electron cut-off wavelength transistor.
Appl. Phys. A 47/4, 317-318 (1988) PACS: 72.15R 85.40 85.30
- Nowotny J., Rekas M., Weppner W.:
Thermoelectric power of YBa₂Cu₃O_x in equilibrium with gas phases.
Appl. Phys. A 47/2, 205-208 (1988) PACS: 74.70 72.20 61.70

- Svob L., Grattepain C., Marfaing Y.:
Diffusion of deuterium in GaAs a molecular gas source.
Appl. Phys. A 47/3, 309-311 (1988) PACS: 72.80E 66.30
- Trzcinski R., Queisser H.J.:
Charge transport in semiconductor microjunctions.
Appl. Phys. A 47/2, 119-122 (1988) PACS: 73.40L 72.20 72.80
- Ullrich B., Schubert E.F., Stark J.B., Cunningham J.E.:
Spatial distribution of impurities in delta-doped n-type GaAs.
Appl. Phys. A 47/2, 123-129 (1988) PACS: 81.10 73.60 75.30
- Ursu I., Alexandrescu R., Draganescu V., Grigoriu C., Mihailescu I.N., Morjan I., Prokhorov A.M., Karlov N.V., Legutchev A.S.:
Laser action on resonant molecular flows through capillaries.
Appl. Phys. B 47/1, 61-65 (1988) PACS: 82.65I 82.65
- Werner J.:
Schottky barrier and pn-junction I/V-plots - Small signal evaluation.
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- Windscheif J., Wettling W., Jantz W.:
Nondestructive topographic evaluation of ion-implanted layers on GaAs substrates by optical absorption.
Appl. Phys. A 47/2, 115-118 (1988) PACS: 61.70T 61.80 78.65 78.50

Surfaces, Interfaces and Layer Structures

- Albano E.V., Martín H.O.:
Study of recombination reactions of particles absorbed on fractal and multifractal substrata.
Appl. Phys. A 47/4, 399-407 (1988) PACS: 82.65J 66.30
- Arita I.H., Hernandez R., Castano V.M.:
Preparation and imaging of macro-bicrystals in thin films.
Appl. Phys. A 47/4, 413-417 (1988) PACS: 61.70N
- Beier T., Pescia D., Stampanoni M., Vaterlaus A., Meier F.:
Ground state magnetic properties of ultrathin fcc Fe and Co films on Cu(001) surfaces.
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- Bertel E., Memmel N., Jacob W., Dose V., Netzer F.P., Rosina G., Rangelov G., Astl G., Saalfeld H.:
Alkali metal oxides: Occupied, unoccupied and excited states.
Appl. Phys. A 47/1, 87-89 (1988) PACS: 73.60H 71.70 79.60 78.70
- Bertness K.A., Mahowald P.H., McCants C.E., Wahi A.K., Kendelewicz T., Lindau I., Spicer W.E.:
Photoenhancement mechanism for oxygen chemisorption on GaAs (110) using visible light.
Appl. Phys. A 47/3, 219-228 (1988) PACS: 73.50G 68.45 82.50
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Nonlinear optical studies of relaxation times of carriers in MBE layers of PbSe and PbEuSe.
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Dynamic order in a surface process.
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The effect of inhomogeneous dopant profiles on the electron energy loss spectra on Si(100).
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Analysis of UV-laser induced oxidation of implanted silicon by optical reflectivity measurements.
Appl. Phys. A 47/3, 255-258 (1988) PACS: 81.60 61.80 78.70
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Photoemission of molecular adsorbates.
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High rate primary ion beam deposition of a-Si:H films.
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Bevel fabrication for depth resolved studies of multiple quantum well structures.
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Layer-by-layer growth of metal overlayers.
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Improved adhesion of Cu on pre-etched polytetrafluoroethylene by PECVD deposited thin metallic layers.
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On the adsorption and desorption of H₂ at metal surfaces.
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Film growth mechanism of photo-chemical vapor deposition.
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Thin film characterization by laser interferometry combined with SIMS.
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Pulsed operation of a liquid metal ion source.
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Film growth and mechanism of LICVD of chromium films from Cr(CO)₆ at 248 nm.
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Excimer-laser-induced ablation of the high-T_c superconductor Bi-Ca-Sr-Cu-O.
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Optical excitation spectra of rare-gas atoms physisorbed on metal surfaces. Numerical results.
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In-situ monitoring of laser-induced silicon oxidation.
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The influence of surface defects on adsorption and desorption.
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Formation of dielectric and semiconductor thin films by laser-assisted evaporation.
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Observation of transient absorption or skipping motion in small angle ion-surface scattering.
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Photon-induced reactions of NO adsorbed on GaAs(110).
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Electronic structure and interactions in well-defined coadsorbate layers.
Appl. Phys. A 47/1, 25-36 (1988) PACS:82.65 68.35 79.60 82.80
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A time-of-flight study on the nanosecond laser induced etching of Cu with Cl₂ at 308 nm.
Appl. Phys. A 47/2, 183-192 (1988) PACS:66.00 79.20
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Negative thermal feedback in laser-assisted oxidation in thin Zn films.
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Laser spectroscopy of desorbing molecules
Appl. Phys. A 47/1, 37-54 (1988) PACS:33.20 82.65
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Experimentation with thin single crystal W foils as slow positron transmission mode moderators.
Appl. Phys. A 47/4, 409-412 (1988) PACS:78.70 81.40 07.77
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